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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/616,854 07/09/2003 Chunlin Liang 42P4214D2 1793 8791 7590 05/27/2004 **EXAMINER BLAKELY SOKOLOFF TAYLOR & ZAFMAN** PHAM, THANH V 12400 WILSHIRE BOULEVARD, SEVENTH FLOOR LOS ANGELES, CA 90025 ART UNIT PAPER NUMBER 2823

DATE MAILED: 05/27/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary 10/616,854 Examiner Thanh V Pharm 2823 - The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of lime may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filled after St K(s) MONTH's from the mailing date of this communication. If the period for reply specified above is the sets than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely, after 50 K(s) MONTH's from the mailing date of this communication. If the period for reply is specified above is the sets than the period of the period for reply specified above in the sets than the statutory minimum of thirty (30) days will be considered timely, and reply the Cffice later than three months after the mailing date of this communication. Any reply received by the Office later than three months after the mailing date of this communication, even if threely filed, may reduce any extra proceived by the Office later than three months after the mailing date of this communication, even if threely filed, may reduce any extra proceived by the Office later than three months after the mailing date of this communication, even if threely filed, may reduce any extra proceived by the Office later than three months after the mailing date of this communication. 1) □ Responsive to communication(s) filed on Og July 2003. 2a) □ This action is FiNAL. 2b) □ This action is non-final. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claim(s) is fixed pending in the application. 4) □ Claim(s) is safare pending in the application. 4) □ Claim(s) is/are pending in the application. 5) □ Claim(s) is/are object	
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1. Certified copies of the priority documents have been received.	
2. Certified copies of the priority documents have been received in Application No.	
3. Copies of the certified copies of the priority documents have been received in this National Stage	
application from the International Bureau (PCT Rule 17.2(a)).	
* See the attached detailed Office action for a list of the certified copies not received.	
Attachment(s)	
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) A) Interview Summary (PTO-413) Paper No(s)/Mail Date.	+ .
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 07/09/03. 5) Notice of Informal Patent Application (PTO-152) 6) Other:	

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Page 2

DETAILED ACTION

Specification

- 1. Claim 3 is objected to because of the following informalities: in line 1, "of claim of claim 2" should be –of claim 2--. Appropriate correction is required.
- 2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 4. Claims 1-4 and 6-7 are rejected under 35 U.S.C. 102(a) as being anticipated by Kim US 6,001,685.

Re claim 1, the Kim reference discloses a method of forming a semiconductor structure comprising: forming a transistor structure, fig. 6A, in an active area of a semiconductor substrate 21, said transistor structure including a gate 24 on said substrate, said gate having a top surface and opposing side surfaces, first dielectric spacer portions 27 adjacent said top surface and said opposing side surfaces, and diffusion regions 26/26' in said substrate adjacent said gate; and depositing a thermally conducting non-electrical conducting material 30/34 on said transistor structure, fig. 6F.

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Re claims 2 and 6, the method further comprising the step of patterning a contact 32'/35' to at least one of said diffusion regions, fig. 6G.

Re claims 3 and 7, wherein said patterned contact has a top surface and a plurality of exposed side surfaces, and wherein after the step of patterning said contact to one of said diffusion regions, the method further comprises forming a second spacer portion 38 of dielectric material, col. 7, lines 5-6, adjacent to at least one of said exposed side portions of said contact.

Re claim 4, the method further comprising the step of depositing a thermal conducting material 40 over said top surface of said contact, fig. 6H.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 5 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kim as applied to claims 1-4 and 6-7 above, and further in view of Schrantz et al. US 5,683,939 (provided by applicant).

The Kim reference teaches substantially all of the instant invention as in the above but lacks the use of thermally conducting non-electrical conducting material selected from the group consisting of AIN, BN, SiC, CVD diamond.

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The Schrantz et al. reference discloses use of diamond films for forming interlevel dielectrics to utilize the high thermal conductivity (background and description of the preferred embodiments).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to apply diamond films for forming interlevel dielectrics as the diamond film would be selected in accordance with the method of Kim in order to utilize the high thermal conductivity for dissipation of heat generated at localized sources as taught by Schrantz et al. (col. 1, lines 23-27).

Conclusion '

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh V. Pham whose telephone number is 571-272-1866. The examiner can normally be reached on M-T (6:30-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Olik Chaudhuri can be reached on 571-272-1855. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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TvP 05/19/04

> Olik Chaudhuri Supervisory Patent Examiner Technology Center 2800